

## Claims

We claim:

1. A pet food product for promoting comprehensive weight management in companion animals comprising, on a dry matter basis, about 35 to about 70% by weight of a protein, about 4 to about 10% by weight of a fat, about 5 to about 25% by weight of a fiber, about 10 to about 35% by weight of a digestible carbohydrate, and about 0.1 to about 1 % by weight of a functional ingredient.
2. The pet food product of claim 1, wherein said companion animal is selected from the group consisting of a dog and a cat.
3. The pet food product of claim 1, wherein said fat comprises essential long-chain fatty acids.
4. The pet food product of claim 1, wherein said functional ingredient is selected from the group consisting of L-carnitine, conjugated linoleic acid and a diacylglyceride.
5. The pet food product of claim 1, wherein said functional ingredient is a diacylglyceride.
6. The pet food product of claim 5, wherein said diacylglyceride is obtained from a vegetable oil.
7. The pet food product of claim 6, wherein said vegetable oil is Econa oil.
8. The pet food product of claim 1, wherein a comprehensive weight management includes a change in physiology of a companion animal selected from a group consisting of an increase in lean body mass, weight loss, an increase in the animal's satiety, and a decrease in the animal's voluntary food intake.

9. The pet food product of claim 1, wherein the pet food product is selected from a group consisting of a wet pet food, a semi-moist pet food, a dry pet food, a pet treat, a pet snack, and a pet drink.
10. A process for producing a pet food product for companion animals, the process comprising the step of adding about 35 to about 70% by weight of a protein, about 4 to about 10% by weight of a fat, about 5 to about 25% by weight of a fiber, about 10 to about 35% by weight of a digestible carbohydrate, and about 0.1 to about 1% by weight of a functional ingredient, wherein said functional ingredient modulates metabolism and builds lean muscle mass.
11. The process of claim 10, wherein said animal is selected from the group consisting of a dog and a cat.
12. The process of claim 10, wherein said fat comprises essential long-chain fatty acids.
13. The process of claim 10, wherein said functional ingredient is selected from the group consisting of L-carnitine, conjugated linoleic acid and a diacylglyceride.
14. The process of claim 10, wherein said functional ingredient is a diacylglyceride.
15. The process of claim 14, wherein said diacylglyceride is obtained from a vegetable oil.
16. The process of claim 15, wherein said vegetable oil is Econa oil.
17. The process of claim 10, wherein the pet food product is selected from a group consisting of a wet pet food, a semi-moist pet food, a dry pet food, a pet treat, a pet snack, and a pet drink.

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18. A process of promoting comprehensive weight management in companion animals comprising the step of feeding to said animal a diet comprising about 35 to about 70% by weight of a protein, about 4 to about 10% by weight of a fat, about 5 to about 25% by weight of a fiber, about 10 to about 35% by weight of a digestible carbohydrate, and about 0.1 to about 1% by weight of a functional ingredient.
19. The process of claim 18, wherein said animal is selected from the group consisting of a dog and a cat.
20. The process of claim 18, wherein said fat comprises essential long-chain fatty acids.
21. The process of claim 18, wherein said functional ingredient is selected from the group consisting of L-carnitine, a conjugated linoleic acid and a diacylglyceride.
22. The process of claim 18, wherein said functional ingredient is a diacylglyceride.
23. The process of claim 22, wherein said diacylglyceride is obtained from a vegetable oil.
24. The process of claim 23, wherein said vegetable oil is Econa oil
25. The process of claim 18, wherein the pet food product is selected from a group consisting of a wet pet food, a semi-moist pet food, a dry pet food, a pet treat, a pet snack, and a pet drink.
26. A process for increasing the lean body mass of a companion animal comprising the step of feeding to said animal a diet comprising about 35 to about 70% by weight of a protein, about 4 to about 10% by weight of a fat, about 5 to about 25% by weight of a fiber, about 10 to about 35% by weight of a digestible carbohydrate, and about 0.1 to about 1% by weight of a functional ingredient.

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27. The process of claim 26, wherein said animal is selected from the group consisting of a dog and a cat.
28. The process of claim 26, wherein said fat comprises essential long-chain fatty acids.
29. The process of claim 26, wherein said functional ingredient is selected from the group consisting of L-carnitine, a conjugated linoleic acid and a diacylglyceride.
30. The process of claim 26, wherein said functional ingredient is a diacylglyceride.
31. The process of claim 30, wherein said diacylglyceride is obtained from a vegetable oil.
32. The process of claim 31, wherein said vegetable oil is Econa oil
33. The process of claim 26, wherein the pet food product is selected from a group consisting of a wet pet food, a semi-moist pet food, a dry pet food, a pet treat, a pet snack, and a pet drink.
34. A process for enhancing the satiety and decreasing the voluntary food intake of a companion animal comprising the step of feeding to said animal a diet comprising about 35 to about 70% by weight of a protein, about 4 to about 10% by weight of a fat, about 5 to about 25% by weight of a fiber, about 10 to about 35% by weight of a digestible carbohydrate, and about 0.1 to about 1% by weight of a functional ingredient.
35. The process of claim 34, wherein said animal is selected from the group consisting of a dog and a cat.
36. The process of claim 34, wherein said fat comprises essential long-chain fatty acids.

37. The process of claim 34, wherein said functional ingredient is selected from the group consisting of L-carnitine, a conjugated linoleic acid and a diacylglyceride.
38. The process of claim 34, wherein said functional ingredient is a diacylglyceride.
39. The process of claim 38, wherein said diacylglyceride is obtained from a vegetable oil.
40. The process of claim 39, wherein said vegetable oil is Econa oil
41. The process of claim 34, wherein the pet food product is selected from a group consisting of a wet pet food, a semi-moist pet food, a dry pet food. A pet treat, a pet snack, and a pet drink.
42. A process for decreasing blood urea nitrogen (BUN) levels of a companion animal comprising the step of feeding to said animal a diet comprising about 35 to about 70% by weight of a protein, about 4 to about 10% by weight of a fat, about 5 to about 25% by weight of a fiber, about 10 to about 35% by weight of a digestible carbohydrate, and about 0.1 to about 1% by weight of a functional ingredient.
43. The process of claim 42, wherein said animal is a dog.
44. The process of claim 42, wherein said fat comprises essential long-chain fatty acids.
45. The process of claim 42, wherein said functional ingredient is selected from the group consisting of L-carnitine, a conjugated linoleic acid and a diacylglyceride.
46. The process of claim 42, wherein said functional ingredient is a diacylglyceride.
47. The process of claim 46, wherein said diacylglyceride is obtained from a vegetable oil.

48. The process of claim 47, wherein said vegetable oil is Econa oil
49. The process of claim 42, wherein the pet food product is selected from a group consisting of a wet pet food, a semi-moist pet food, a dry pet food, a pet treat, a pet snack, and a pet drink.
50. A process for reducing the risk of ketosis of a companion animal comprising the step of feeding to said animal a diet comprising about 35 to about 70% by weight of a protein, about 4 to about 10% by weight of a fat, about 5 to about 25% by weight of a fiber, about 10 to about 35% by weight of a digestible carbohydrate, and about 0.1 to about 1% by weight of a functional ingredient.
51. The process of claim 50, wherein said animal is a dog.
52. The process of claim 50, wherein said fat comprises essential long-chain fatty acids.
53. The process of claim 50, wherein said functional ingredient is selected from the group consisting of L-carnitine, a conjugated linoleic acid and a diacylglyceride.
54. The process of claim 50, wherein said functional ingredient is a diacylglyceride.
55. The process of claim 54, wherein said diacylglyceride is obtained from a vegetable oil.
56. The process of claim 55, wherein said vegetable oil is Econa oil
57. The process of claim 50, wherein the pet food product is selected from a group consisting of a wet pet food, a semi-moist pet food, a dry pet food, a pet treat, a pet snack, and a pet drink.